

Claims

1. Device for stabilising a single-track vehicle, with a supporting device (4) and an adjusting device (14) which is intended for selective lowering and raising of support elements and which can be actuated by way of a control device (10) which can be influenced as a function of control signals from a speedometer which senses the speed of the vehicle and of a transverse acceleration meter, characterised in that the adjusting device (14) comprises at least one supporting and actuating element (15) which can be influenced in combination by way of the control device (10) and/or by signals from the driver, is intended for extending and retracting the supporting device (4) and can be tensioned against the supporting device, as well as means for selective locking, unlocking, tensioning and extending of the supporting and actuating element (15).
2. Device as claimed in Claim 1, with two supporting struts (6 and 7), one for each supporting roller (5), which can be pivoted in and out, characterised in that the supporting struts (6 and 7) are coupled to one another so as to be adjustable synchronously and that the supporting and actuating element (15) is coupled to one of these supporting struts (6 or 7).
3. Device as claimed in Claim 1, with two supporting struts (6 and 7), one for each supporting roller (5), which can be pivoted in and out, characterised in that each of these supporting struts (6, 7) is coupled to its own supporting and actuating element (15).
4. Device as claimed in any one of the preceding claims, characterised in that the supporting and actuating element (15) comprises a hydraulic system which is closed towards the exterior, e.g. with a hydraulic gas spring (21) which comprises a gas chamber (24) as volume equalisation and energy store, a hydraulic fluid chamber (28) which is separate therefrom and a piston (25) which is guided in the latter and which produces the RIGID (closed) or LOOSE (open) states by hydraulic displacement transmission with a circulating-through-flow valve (26) which can be actuated electrically or by other actuating means and is capable of being closed and opened, and that means for tensioning, locking, unlocking and extending the hydraulic gas spring (21) which comprise a hydraulic pump (29) which is intended for pumping round hydraulic fluid from the hydraulic fluid chamber (28) to the

opposite side of the piston (25) during the tensioning operation or *vice versa* during extending.

5. Device as claimed in any one of the preceding claims, characterised in that electric, pneumatic or mechanical means or a combination of two or all three means are provided for controlling and adjusting the supporting and actuating element (15) into the RIGID, LOOSE, TENSIONED and EXTENDING states.

6. Single-track vehicle with a stabilising device as claimed in any one of Claims 1 to 5.